

# DRAFT MINUTES

## **Minutes of the Eleventh Meeting of the FCC Advisory Committee for the 2007 World Radiocommunication Conference (WRC-07)**

Date/Time: December 13, 2006 at 11:00 a.m.

Location: Federal Communications Commission  
Commission Meeting Room (TW-C305)  
445 12th Street, S.W., Washington, D.C.

Committee Members Present: See Appendix 1

FCC Employees Present: See Appendix 2

Meeting Summary:

### **1. Opening Remarks**

The Chair, Ms. Victory, welcomed the participants and noted that it had been almost three years since the committee started its work in January 2004. She commented on the progress made since that time and was pleased with the finalization of the outstanding issues. She said that this may be the last meeting of this advisory committee.

### **2. Approval of the Agenda**

The agenda, Document **WAC/143(13/12/06)**, was approved without change.

### **3. Approval of the Minutes of the Tenth Meeting**

The minutes, Document **WAC/142(04.10.06)**, were approved without change.

### **4. Status of Preliminary Views and Draft Proposals**

Mr. Roytblat introduced Document **WAC/144(13.12.06)** which was put together to show where the committee's work led to the U.S. Proposals. He remarked that, as shown by the document, most of the committee's recommendations resulted in a U.S. Proposal. He noted that these proposals were available for viewing on the FCC's WRC-07 website, and he promised that the website would be maintained all the way up to the conference.

## **5. Report on Recent WRC-07 Preparatory Meetings**

Mr. Roytblat reported that CITEL PCC II Working Group 1 (WRC-07) met in October and that a report on the meeting was contained in Document **WAC/145(13.12.06)**. He recommended that the report be reviewed carefully as it not only showed where we were on the U.S. Proposals but also where other administrations were on the WRC-07 agenda items.

## **6. NTIA Draft Preliminary Views and Proposals**

Ms. Victory asked Jim Vorhies of the National Telecommunications and Information Administration (NTIA) to give an update on what NTIA was doing and what they thought that they would be doing in the future. Mr. Vorhies responded that from their perspective, they were finished. He did note that future issues were under discussion and that there were three new items that came over today, but he doubted that they would affect the committee's work. He thanked the advisory committee Chair for making the process available to participate in and that he really appreciated that. He said that it had been productive and had worked quite well. He also thanked the informal working group chairs for working with those from NTIA.

Ms. Victory thanked Mr. Vorhies and remarked that NTIA had produced a tremendous amount of output early on in the process and that it was great for the committee to have that to react to.

Mr. Hadinger asked if Mr. Vorhies could identify the issues that the latest three documents address so that everyone would understand. Mr. Vorhies reported that the first had to do with a future conference agenda item on unmanned aircraft vehicles which was a future study program. The second had to do with WRC-07 Agenda Item 1.6 and related to a clean-up of an old 5 GHz allocation for the aeronautical mobile-satellite service, and the third also had to do with this agenda item and a 5010-5030 MHz allocation. He thought the latter was rather straight forward and should not be any problem to handle.

NTIA letter, Document **WAC/146(13.12.06)** was noted.

## **7. IWG Status Reports and Consideration of Draft Preliminary Views and Proposals**

### **IWG-1: Terrestrial and Space Science Services**

Mr. Roytblat gave the report submitted by the Chair of IWG-1 since the Chair and the Vice-Chair of IWG-1 who were unable to be present. He reported that IWG-1 had met once since the last meeting of the advisory committee and had conducted business electronically. They had finalized two documents for consideration. The first, **WAC/151(13.12.06)**, dealt with the RCS proposal under AI 1.2. IWG-1 had concerns with that proposal as it proposed to apply mandatory power limits on the active fixed and mobile services in the 36-37 GHz band, to protect the passive services. Therefore, the IWG-1 proposed that the limits not be mandatory, and that such limits would make any unwanted emissions requirements unnecessary to protect the passive services. In

addition, IWG-1 wanted to make another minor clarification to the text of the proposal. They were redlined in the document before the committee.

Document **WAC/151(13.12.06)**, a draft proposal for WRC-07 Agenda Item 1.2, was approved.

The second, **WAC/147(13.12.06)**, was a proposal under AI 7.2, a new agenda item for the 2011 WRC. It proposed to study the need for additional spectrum for Unmanned Aerial System (UAS) applications in three different aeronautical services. This IWG-1 proposal was also to serve as the IWG-1 comments on the RCS proposal under WRC-07 Agenda Item 7.2 on UAS spectrum requirements.

Document **WAC/147(13.12.06)**, a draft proposal for WRC-07 Agenda Item 7.2, was approved.

Mr. Roytblat added that IWG-1 did not plan currently to have additional meetings unless there were more RCS proposals to which they needed to respond.

## **IWG-2: Satellite Services and HAPS**

Mr. Baruch, Chair of IWG-2, reported that his group had held one meeting since the last meeting of the advisory committee and had considered NTIA's draft proposal for WRC-07 Agenda Item 1.7 (Document **WAC/146(13.12.06)**).

Comments on RCS preliminary views/proposals:

Mr. Baruch stated that IWG-2 endorsed, without comment, NTIA's draft proposal for WRC-07 Agenda Item 1.7 as set forth in their meeting minutes of their last meeting which had been approved upon circulation. With no objections from the advisory committee, the IWG-2 recommendation was approved.

Mr. Baruch took the opportunity to thank everyone who had participated in his group over the last two plus years. He noted that they had accomplished a lot of work and said that everyone had contributed to that.

## **IWG-3: IMT-2000 and 2.5 GHz Sharing Issues**

Ms. Cohen, Chair of IWG-3, reported that IWG-3 had met three times and held two conference calls with the usual lively and enthusiastic participation to discuss two proposals that came before the group. Unfortunately, they were unable to reach consensus on each of these proposals, and therefore were presenting two views on each of them.

For the 698-806 MHz band, there were two views offered by separate proponents. Both proposals were developed as a result of the discussion of adding a new mobile

allocation to the 698-806 MHz band and modifying existing and new footnotes for this allocation. One set of proponents wanted to identify this band under the root name “IMT” while the other as “IMT Advanced”. The proponents of the first view held advance wireless services that were consistent with U.S. allocations in the band. This view was supported by Alcatel-Lucent, CDMA Development Group, Cingular, Ericsson, Lockheed Martin, Nokia, Qualcomm, TMG, and Verizon. The proponents supporting the second view sought modifications to the allocations to support other broadband wireless access systems and proposed language for a resolution related to public protection and disaster relief. These proponents felt that this view would provide flexibility in allowing operators to bring services online as rapidly as needed. This view was supported by Arraycomm, Clearwire, Henry Straub, Intel, Motorola, Nortel, Sprint, Nextel, and the Wireless Communications Association International, Inc. These views were to be found in **WAC/148A** and **WAC/148B**.

Documents **WAC/148(13.12.06)**, an explanatory cover, and **WAC/148A(13.12.06)** and **WAC/148B(13.12.06)**, the two views on WRC-07 Agenda Item 1.4 (698-806 MHz), were approved.

Ms. Cohen then reported on the second issue that was considered by IWG-3 which was how to harmonize the 3650-3700 MHz band. IWG-3 was also not able to reach consensus on this item. One group of participants had one view while the other had another. The first view proposed no change to the Table of Frequency Allocations, and the proponents of this view said that sharing studies had shown that sharing was not feasible in the same geographic area between IMT Advanced and the fixed-satellite service where the latter had significant assets globally that included a number of space networks registered by the United States. Proponents of this view consisted of Boeing, Intelsat, the Global VSAT Forum, Northrop Grumman, and all members of the Satellite Industry Association.

The view presented by the second group proposed that the U.S. have no proposal of “no change” because there were a limited number of satellites serving within the U.S. below 3700 MHz and did not present the same sharing concerns. The proponents also felt that this sent the wrong message internationally because it was not consistent where satellite use was limited. As a result, the second view did not propose identification for “IMT” in this band. The proponents of this view included Intel, Motorola, Nokia, Sprint-Nextel and the Wireless Communications Association International, Inc.

Documents **WAC/149(13.12.06)**, an explanatory cover, and **WAC149A(13.12.06)** and **WAC/149B(13.12.06)**, the two views on WRC-07 Agenda Item 1.4 (3650-3700 MHz), were approved.

Ms. Cohen thanked the Vice-Chair, Mindel de la Torre, and all the participants who made it possible to produce a large volume of documents.

#### **IWG-4: Broadcasting and Amateur Issues**

Mr. Fisher, Chair of IWG-4, announced that he was presenting an informational report that related to WRC-07 Agenda Item 1.6 on new aeronautical mobile services in the bands between 108 MHz and 6 GHz. He noted that the radionavigation-satellite service, specifically the Global Positioning Satellite, uses a small portion of that band (i.e, 5000-5030 MHz). The proponents of this service had proposed no change to that modest band because they had a future need to develop services in that band. The aeronautical industry opposed that proposal because they too had a possible future need to develop new services in the band. IWG-4 was not able to reach consensus on this, but did reach consensus on the informational report with the support from the two industries. The document was offered for the committee's approval so that it could be made available to the U.S. Government for information as it fashions proposals for WRC-07.

The Informational Report associated with WRC-07 Agenda Item 1.6, Document **WAC/150(13.12.06)**, was approved.

Mr. Fisher thanked his Vice-Chair, Mr. Ireland, who did most of the work in IWG-4, as well as the others who had participated.

#### **IWG-5: Regulatory Issues**

Ms. Baum, the Vice-Chair of IWG-5, reported that IWG-5 had met once since the last meeting of the advisory committee and also conducted its work electronically. They reviewed the proposal for WRC-07 Agenda Item 4 and one of their members had concerns regarding the suppression of Resolution 405 that dealt with the aeronautical mobile service as some of the provisions were to be maintained. She said that IWG-5 recommends "no change" at this time.

There being no objection to IWG-3's recommendation, it was approved.

She also noted that since their last meeting, the ITU-R Director's Report under WRC-07 Agenda Item 7.1 became available and that the ITU-R Special Committee on Regulatory and Procedural Matters (SCRPM) had met recently. She thought these might be of interest to the IWG-5 members, and they should contact Ms. Allison or Ms. Baum to discuss those further.

Ms. Baum said that she felt that Ms. Allison very much regretted not being here today. She expressed her and Ms Allison's appreciation for the work done by the IWG-5 members as they were very active in discussing regulatory matters.

Ms. Victory and Mr. Hadinger expressed their appreciation for all of the hard work done by the chairs, vice-chairs and participants in all of their meetings over the past years to achieve consensus where that was possible and to succinctly document where they diverged when they could not. This all helped the FCC, NTIA, and State to

formulate the U.S. position. They also thanked Mr. Roytblat, Mr. Weiland, and the FCC staff who facilitated the work of the advisory committee.

Mr. Roytblat expressed his thanks to Ms. Victory and Mr. Hadinger as well as to the IWG Chairs and Vice-Chairs and presented them with certificates of appreciation.

## **8. Future meetings**

Ms. Victory announced that the advisory committee would now be going into stand-by mode. It would remain chartered until the conference and would be able ask the FCC to schedule a meeting if that should become necessary as a result of documents becoming available or developments in industry or international meetings.

She added that the important international meetings coming up in 2007 were the Conference Preparatory Meeting (CPM), February 19-March 26; the Radio Assembly, October 15-19, and finally, the World Radiocommunication Conference (WRC-07), October 22-November 16.

## **9. Other business**

There being no further business, the meeting adjourned at 11:34 a.m.

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### **Documents Distributed:**

- WAC/142 Minutes of the 10<sup>th</sup> WRC-07 Advisory Committee Meeting
- WAC/143 Agenda for the 11<sup>th</sup> WRC-07 Advisory Committee Meeting
- WAC/144 Summary of Recommendations of the WRC-07 Advisory Committee Leading to U.S. Proposals
- WAC/145 Report from the 8<sup>th</sup> Meeting of the CITEL PCC II Working Group, 17-20 October 2006
- WAC/146 NTIA letter, 7 October 2006, with Draft Proposal for WRC-07 Agenda Item 7.2 (UAVs)
- WAC/147 Draft Proposal for WRC-07 Agenda Item 7.2 (UAS) (IWG-1)
- WAC/148 Cover memo from the IWG-3 Chair with attached alternate views (WAC/148A and WAC/148B) on WRC-07 Agenda Item 1.4 (698-806 MHz) (IWG-3)
- WAC/149 Cover memo from the IWG-3 Chair with attached alternate views (WAC/149A and WAC/149B) on WRC-07 Agenda Item 1.4 (3650-3700 MHz) (IWG-3)
- WAC/150 Informational Report for WRC-07 Agenda Item 1.6 (5000-5030 MHz) (IWG-4)
- WAC/151 Draft Proposal for WRC-07 Agenda Items 1.2 (36-37 GHz) (IWG-1)

# MINUTES

## Appendix 1 WRC-07 Advisory Committee Attendance Eleventh Meeting – December 13, 2006

<b>Last Name</b>	<b>First Name</b>	<b>Occupation Or Affiliation</b>
Assefa	Lily	NTIA
Baruch	Steve	Leventhal Senter & Lerman PLLC
Baum	Kim	Motorola, Inc.
Brittingham	Don	Verizon
Cohen	Cecily	Nokia Inc.
De La Torre	Mindel	Telecommunications Management Group (TMG)
Feltmon	Andrew	ITT for DoD
Fisher	Ben	Pillsbury Winthrop Shaw Pittman LLP for NAB
Green	Katherine	ITT Industries
Hadinger	Peter	Northrop Grumman Space Technology
Henriques	Humberto	Worldspace
Hutchings	Suzanne	ICO
Ireland	Walt	American Radio Relay League (ARRL)
Keane	Ken	Duane Morris LLP
Khalilzadeh	Abdolmajid	INTELSAT
Luther	William	ASRC Management Services
Nasser	Raafat	ITT for DoD
Peters	Aaron	Washington Core
Renshaw	Alan	Danna Corp. for Dept. of Navy
Rush	Charles	Telecommunications Management Group (TMG)
Straube	Henry	Consultant for Intel
Sullivan	Tom	MSV Consultant
Urbany	Frank	Bell South
Victory	Nancy	Wiley Rein & Fielding LLP
Vorhies	Jim	NTIA
Wallace	William	Textron for A/A-UAS
Ward	Stephen	Vredenburg - AMS
Weaver	Frank C.	Boeing
Weinreich	David	ConneXion by Boeing
Wilson	Joanne	ArrayComm
Wye	David	Cingular Wireless

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## **Appendix 2**

### **WRC-07 Advisory Committee – FCC Representatives Eleventh Meeting – December 13, 2006**

<b>Last Name</b>	<b>First Name</b>
Breig	Charles
Dubroof	Linda
Gilsenan	Jennifer
Ibarra	Dante
Mullinix	Michael
Olson	Larry
Persaud	Sankar
Roytblat	Alex
Sleem	Ziad
Weiland	Donald